

Appln. No. 10/722,285  
Applicant : Shrivastav  
Filed : November 25, 2003  
TC/A.U. : 2641  
Examiner : Dorvil, Richemond  
Docket No. : 5853-278-1



Confirmation No. 9081

*JFW*

---

TRANSMITTAL LETTER

---

MAIL STOP AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Please find enclosed the following for filing:

- X Information Disclosure Statement, Forms PTO/SB/08B with references (23);
- X Please charge any deficiencies or credit any overpayment to Deposit Account No. 50-0951; and
- X Other: (1) Postcard.

Respectfully submitted,

Date: August 31, 2005

A handwritten signature in cursive script, appearing to read "Richard A. Hinson".

Gregory A. Nelson, Reg. No. 30,577  
Richard A. Hinson, Reg. No. 47,652  
AKERMAN SENTERFITT  
Customer No. 30448  
P. O. Box 3188  
West Palm Beach, FL 33402-3188  
(561) 653-5000

{WP248104;1}

---

CERTIFICATE UNDER 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class mail in an envelope addressed to the MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

August 31, 2005  
Date

A handwritten signature in cursive script, appearing to read "Richard A. Hinson".

Richard A. Hinson, Esquire

Reg. No. 47,652



Appln. No. : 10/722,285  
Applicant : Shrivastav  
Filed : November 25, 2003  
TC/A.U. : 2641  
Examiner : Dorvil, Richemond

Confirmation No. 9081

Docket No. : 5853-278-1

---

INFORMATION DISCLOSURE STATEMENT

---

MAIL STOP AMENDMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §1.56, Applicants hereby notify the U.S. Patent and Trademark Office of the document which is listed on the attached Forms PTO/SB/08B, with references, and which the Examiner may deem relevant to patentability of the claims of the above-identified application. This Information Disclosure Statement is filed in accordance with the partial waiver of the submission requirement under 37 C.F.R. 1.98(a)(2)(i).

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits and, therefore, no certification under 37 C.F.R. §1.97(e) or fee under 37 C.F.R. §1.17(p) is required.

The submission of the listed documents is not intended as an admission that such documents constitute prior art against the claims of the present application. Applicants do not

{WP248104;1}

---

CERTIFICATE UNDER 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class mail in an envelope addressed to the MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

August 31, 2005  
Date

Richard A. Hinson Reg. No. 47,652  
Richard A. Hinson, Esquire

waive any right to take any action that would be appropriate to antedate or otherwise remove the listed documents as competent references against the claims of the present application.

Applicants respectfully request that the listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08B be returned in accordance with MPEP §609.

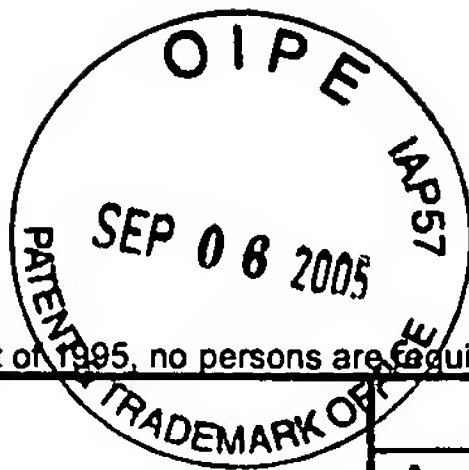
Respectfully submitted,

Date: August 31, 2005



---

Gregory A. Nelson, Reg. No. 30,577  
Richard A. Hinson, Reg. No. 47,652  
AKERMAN SENTERFITT  
Customer No. 30448  
P. O. Box 3188  
West Palm Beach, FL 33402-3188



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**Complete if Known****INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT***(Use as many sheets as necessary)*

Application Number	10/722,285
Filing Date	NOVEMBER 25, 2003
First Named Inventor	SHRIVASTAV
Art Unit	2641
Examiner Name	DORVIL, RICHEMOND
Attorney Docket Number	5853-278-1

Sheet 1 of 3

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		CHILDERS, D.G., et al., "Vocal quality factors: analysis, synthesis, and perception", J. Acoust. Soc. Am., Vol. 90, No. 5, pp. 2394-410, (Nov. 1991).	✓
		De KROM, G., "A Cepstrum-Based Technique for Determining a Harmonics-to-Noise Ratio in Speech Signals", J. Speech Hear. Res., Vol. 36, No. 2, (Apr. 1993).	✓
		De KROM, G., "Some Spectral Correlates of Pathological Breathy & Rough Voice Quality for Different Types of Vowel Fragments" J. Speech Hear. Res., Vol. 38, No. 4, (Aug. 1995).	✓
		DEAL, R.E., et al., "Some waveform & spectral features of vowel roughness", J. Speech Hear. Res., Vol. 21, No. 2, pp. 250-64, (June 1978).	✓
		EMANUEL, F.W., et al., "Identification of normal & abnormally rough vowels by spectral noise level measurements", J Commun Disord., Vol. 14, No. 1, (cont. below)	✓
		(cont. from above) pp. 75-85, (Jan. 1981).	
		EMANUEL, F.W., et al., "Harmonic levels & vowel roughness", J Speech Hear Res., Vol. 22, No. 4, pp. 829-40, (Dec. 1979).	✓
		ESKENAZI, L., et al., "Acoustic correlates of vocal quality", J Speech Hear Res., Vol. 33, No. 2, pp. 298-306, (June 1990).	✓
		FEIJOO, S., et al., "Short-term stability measures for the evaluation of vocal quality", J Speech Hear Res., Vol. 33, No. 2, pp. 324-34, (June 1990).	✓
		FROHLICH, M., et al., "Acoustic Voice Analysis by Means of the Hoarseness Diagram", J Speech Lang. Hear Res., Vol. 43, No. 3, (June 2000).	✓

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/722,285
				Filing Date	NOVEMBER 25, 2003
				First Named Inventor	SHRIVASTAV
				Art Unit	2641
				Examiner Name	DORVIL, RICHEMOND
Sheet	2	of	3	Attorney Docket Number	5853-278-1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		MICHAELIS, D., et al., "Selection & combination of acoustic features for the description of pathologic voices", J Acoust Soc Am., Vol. 103, (cont. below)	✓
		(cont. from above) No. 3, pp. 1628-39, (March 1998).	
		GAUFFIN, J., et al., "Spectral correlates of glottal voice source waveform characteristics", J Speech Hear Res., Vol. 32, No.3, pp. 556-65, (Spe. 1989).	✓
		HAMMARBERG, B., et al., "Perceptual & acoustic correlates of abnormal voice qualities", Acta Otolaryngol., Vol. 90, Nos. 5-6, pp. 441-51, (Nov-Dec, 1980).	✓
		HILLENBRAND, J., et al., "Acoustic Correlates of Breathy Vocal Quality", J Speech Hear Res., Vol. 37, No. 4, (Aug. 1994).	✓
		HILLENBRAND, J., et al., "Acoustic correlates of breathy vocal quality, dysphonic voices & continuous speech", J Speech Hear Res., Vol, 39, (cont. below)	✓
		(cont. from above) No. 2, pp. 311-21, (Apr. 1996).	
		HIRANO, M., et al., "Acoustic analysis of pathological voice." Acta Otolaryngol, Vol. 105, Nos. 5-6, pp. 432-8, (May-June 1988).	✓
		KASUYA, H., et al., "Normalized noise energy as an acoustic measure to evaluate pathologic voice", J Acoust Soc Am., Vol. 80, No. 5, pp. 1329-34, (Nov. 1986).	✓
		MARTIN, D., et al., "Pathologic voice type & the acoustic prediction of severity", J Speech Hear Res., Vol. 38, No. 4, pp. 765-71, (Aug. 1995).	✓

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.  
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>	
		Application Number	10/722,285
		Filing Date	NOVEMBER 25, 2003
		First Named Inventor	SHRIVASTAV
		Art Unit	2641
		Examiner Name	DORVIL, RICHEMOND
Sheet 3	of 3	Attorney Docket Number	5853-278-1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		MILENKOVIC, P., "Least mean square measures of voice perturbation", J Speech Hear Res., Vol. 30, No. 4, pp. 529-38, (Dec. 1987).	✓
		PARSA, V., et al., "Identification of pathological voices using glottal noise measures", J Speech Lang Hear Res., Vol. 43, No. 2, pp. 469-85, (Apr. 2000).	✓
		SHRIVASTAV, R., "The use of an auditory model in predicting perceptual ratings of breathy voice quality", J Voice, Vo. 17, No. 4, pp. 502-12, (Dec. 2003).	✓
		"Perceptual Speech Quality Measurement", OPTICOM GmbH, 2001.	✓
		PROSEK, R.A., et al., "An evaluation of residue features as correlates of voice disorders", J Commun Disord., Vol. 20, No. 2, pp. 105-17, (Apr. 1987).	✓
		SHOJI, K., et al., "High-frequency power ratio of breathy voice", Laryngoscope, Vol. 102, No. 3, pp. 267-71, (Mar. 1992).	✓

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.